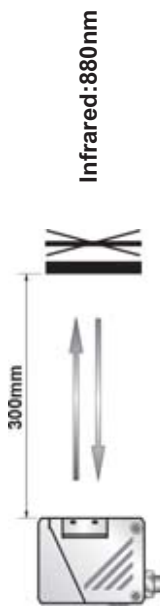




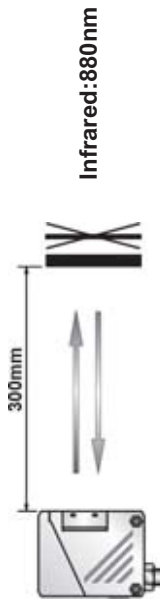






Diffuse Mode with Background Suppression






| Sensing Mode | Connection | Supply Voltage | Output Mode | Part Number |
|--|---|--------------------------------------|------------------------|------------------------|
| <p style="text-align: center;">Infrared: 880nm</p>  <p style="text-align: center;">300mm</p> <p style="text-align: center;">Diffuse Mode with Background Suppression Sensing Distance: 300mm</p> | Terminal | 10-30V DC | NPN | RP76-D0300N-CY9T4U-BS |
| |  | | PNP | RP76-D0300P-CY9T4U-BS |
| | | | NPN/PNP | RP76-D0300D-CY9T4U-BS |
| | | | NPN , Timing delay | RP76-D0300N-CY9T4U-BT |
| | | | PNP , Timing delay | RP76-D0300P-CY9T4U-BT |
| | | | NPN/PNP, Timing delay | RP76-D0300D-CY9T4U-BT |
| | | Quick Disconnect (0° or 90° settled) | 10-30V DC (Euro Style) | NPN |
| |  | PNP | | RP76-D0300P-CY9Q4UE-BS |
| | | NPN/PNP | | RP76-D0300D-CY9Q4UE-BS |
| | | NPN , Timing delay | | RP76-D0300N-CY9Q4UE-BT |
| | | PNP , Timing delay | | RP76-D0300P-CY9Q4UE-BT |
| | | NPN/PNP, Timing delay | | RP76-D0300D-CY9Q4UE-BT |
| | | 6" Pigtail | 10-30V DC (Euro Style) | NPN |
| |  | PNP | | RP76-D0300P-CY9P4UE-BS |
| | | NPN/PNP | | RP76-D0300D-CY9P4UE-BS |
| | | NPN , Timing delay | | RP76-D0300N-CY9P4UE-BT |
| | | PNP , Timing delay | | RP76-D0300P-CY9P4UE-BT |
| | | NPN/PNP, Timing delay | | RP76-D0300D-CY9P4UE-BT |
| | | Quick Disconnect swivel 90° | 10-30V DC (Euro Style) | NPN |
| |  | PNP | | RP76-D0300P-CY9Q4UE-SB |
| | | NPN/PNP | | RP76-D0300D-CY9Q4UE-SB |
| | | NPN , Timing delay | | RP76-D0300N-CY9Q4UE-TB |
| | | PNP , Timing delay | | RP76-D0300P-CY9Q4UE-TB |
| | | NPN/PNP, Timing delay | | RP76-D0300D-CY9Q4UE-TB |

Diffuse Mode with Background Suppression





| Sensing Mode | Connection | Supply Voltage | Output Mode | Part Number |
|--|---|--|--|------------------------|
| <p style="text-align: center;">Infrared: 880nm</p>  <p style="text-align: center;">300mm</p> <p style="text-align: center;">Diffuse Mode with Background Suppression Sensing Distance: 300mm</p> | Terminal  | 12-240V DC/ 24-240V AC | Relay NO (4-wire) | RP76-D0300R-CY9T4L-BS |
| | | | Relay NO, Timing delay (4-wire) | RP76-D0300R-CY9T4L-BT |
| | | | SPST SCR Solid-state Light-ON (2-wire) | RP76-D0300C-LY9T4L-BS |
| | | | SPST SCR Solid-state Dark-ON (2-wire) | RP76-D0300C-DY9T4L-BS |
| | Quick Disconnect (0° or 90° settled)  | 12-240V DC/ 24-240V AC (Micro Style) | Relay NO (4-wire) | RP76-D0300R-CY9Q4LM-BS |
| | | | Relay NO, Timing delay (4-wire) | RP76-D0300R-CY9Q4LM-BT |
| | | | SPST SCR Solid-state Light-ON (2-wire) | RP76-D0300C-LY9Q4LM-BS |
| | | | SPST SCR Solid-state Dark-ON (2-wire) | RP76-D0300C-DY9Q4LM-BS |
| | 6" Pigtail  | 12-240V DC/ 24-240V AC (Micro Style) | Relay NO (4-wire) | RP76-D0300R-CY9P4LM-BS |
| | | | Relay NO, Timing delay (4-wire) | RP76-D0300R-CY9P4LM-BT |
| | | | SPST SCR Solid-state Light-ON (2-wire) | RP76-D0300C-LY9P4LM-BS |
| | | | SPST SCR Solid-state Dark-ON (2-wire) | RP76-D0300C-DY9P4LM-BS |
| | Quick Disconnect swivel 90°  | 12-240V DC/ 24-240V AC (Micro Style) | Relay NO (4-wire) | RP76-D0300R-CY9Q4LM-SB |
| | | | Relay NO, Timing delay (4-wire) | RP76-D0300R-CY9Q4LM-TB |
| | | | SPST SCR Solid-state Light-ON (2-wire) | RP76-D0300C-LY9Q4LM-SB |
| | | | SPST SCR Solid-state Dark-ON (2-wire) | RP76-D0300C-DY9Q4LM-SB |

D: RP76 SENSORS

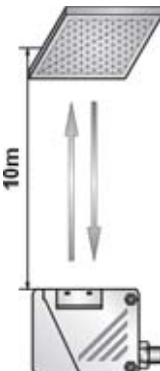




Diffuse Mode

| Sensing Mode | Connection | Supply Voltage | Output Mode | Part Number |
|--|--|--------------------------------------|------------------------|-----------------------|
| Infrared: 880nm  Diffuse Mode Sensing Distance: 800mm | Terminal | 10-30V DC | NPN | RP76-D0800N-CY9T4U |
| |  | | PNP | RP76-D0800P-CY9T4U |
| | | | NPN/PNP | RP76-D0800D-CY9T4U |
| | | | NPN , Timing delay | RP76-D0800N-CY9T4U-T |
| | | | PNP , Timing delay | RP76-D0800P-CY9T4U-T |
| | | | NPN/PNP, Timing delay | RP76-D0800D-CY9T4U-T |
| | | Quick Disconnect (0° or 90° settled) | 10-30V DC (Euro Style) | NPN |
| |  | PNP | | RP76-D0800P-CY9Q4UE |
| | | NPN/PNP | | RP76-D0800D-CY9Q4UE |
| | | NPN , Timing delay | | RP76-D0800N-CY9Q4UE-T |
| | | PNP , Timing delay | | RP76-D0800P-CY9Q4UE-T |
| | | NPN/PNP, Timing delay | | RP76-D0800D-CY9Q4UE-T |
| 6" Pigtail | | 10-30V DC (Euro Style) | NPN | RP76-D0800N-CY9P4UE |
|  | PNP | | RP76-D0800P-CY9P4UE | |
| | NPN/PNP | | RP76-D0800D-CY9P4UE | |
| | NPN , Timing delay | | RP76-D0800N-CY9P4UE-T | |
| | PNP , Timing delay | | RP76-D0800P-CY9P4UE-T | |
| | NPN/PNP, Timing delay | | RP76-D0800D-CY9P4UE-T | |
| | Quick Disconnect swivel 90° | 10-30V DC (Euro Style) | NPN | RP76-D0800N-CY9Q4UE-S |
|  | PNP | | RP76-D0800P-CY9Q4UE-S | |
| | NPN/PNP | | RP76-D0800D-CY9Q4UE-S | |
| | NPN , Timing delay | | RP76-D0800N-CY9Q4UE-TS | |
| | PNP , Timing delay | | RP76-D0800P-CY9Q4UE-TS | |
| | NPN/PNP, Timing delay | | RP76-D0800D-CY9Q4UE-TS | |

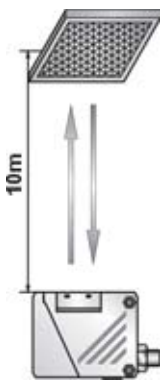




Diffuse Mode

| Sensing Mode | Connection | Supply Voltage | Output Mode | Part Number |
|--|--|--|--|------------------------|
| Infrared:880nm | Terminal  | 12-240V DC/ 24-240V AC | Relay NO (4-wire) | RP76-D0800R-CY9T4L |
| | | | Relay NO, Timing delay (4-wire) | RP76-D0800R-CY9T4L-T |
| | | | SPST SCR Solid-state Light-ON (2-wire) | RP76-D0800C-LY9T4L |
| | | | SPST SCR Solid-state Dark-ON (2-wire) | RP76-D0800C-DY9T4L |
| | Quick Disconnect (0° or 90° settled)  | 12-240V DC/ 24-240V AC (Micro Style) | Relay NO (4-wire) | RP76-D0800R-CY9Q4LM |
| | | | Relay NO, Timing delay (4-wire) | RP76-D0800R-CY9Q4LM-T |
| | | | SPST SCR Solid-state Light-ON (2-wire) | RP76-D0800C-LY9Q4LM |
| | | | SPST SCR Solid-state Dark-ON (2-wire) | RP76-D0800C-DY9Q4LM |
| Diffuse Mode Sensing Distance:800mm | 6" Pigtail  | 12-240V DC/ 24-240V AC (Micro Style) | Relay NO (4-wire) | RP76-D0800R-CY9P4LM |
| | | | Relay NO, Timing delay (4-wire) | RP76-D0800R-CY9P4LM-T |
| | | | SPST SCR Solid-state Light-ON (2-wire) | RP76-D0800C-LY9P4LM |
| | | | SPST SCR Solid-state Dark-ON (2-wire) | RP76-D0800C-DY9P4LM |
| | Quick Disconnect swivel 90°  | 12-240V DC/ 24-240V AC (Micro Style) | Relay NO (4-wire) | RP76-D0800R-CY9Q4LM-S |
| | | | Relay NO, Timing delay (4-wire) | RP76-D0800R-CY9Q4LM-TS |
| | | | SPST SCR Solid-state Light-ON (2-wire) | RP76-D0800C-LY9Q4LM-S |
| | | | SPST SCR Solid-state Dark-ON (2-wire) | RP76-D0800C-DY9Q4LM-S |

Retroreflective Mode with Polarizing Filter

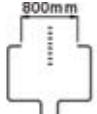







| Sensing Mode | Connection | Supply Voltage | Output Mode | Part Number |
|--|---|---------------------------------|------------------------|------------------------|
| <p style="text-align: center;">LED red:660nm</p>  <p style="text-align: center;">Retro-reflective Mode with Polarizing Filter Sensing Distance:10m</p> | Terminal | 10-30V DC | NPN | RP76-L010MN-CY6T4U-PF |
| |  | | PNP | RP76-L010MP-CY6T4U-PF |
| | | | NPN/PNP | RP76-L010MD-CY6T4U-PF |
| | | | NPN , Timing delay | RP76-L010MN-CY6T4U-TP |
| | | | PNP , Timing delay | RP76-L010MP-CY6T4U-TP |
| | | | NPN/PNP,Timing delay | RP76-L010MD-CY6T4U-TP |
| | | QuickDisconnect(0°or90°settled) | 10-30V DC (Euro Style) | NPN |
| |  | PNP | | RP76-L010MP-CY6Q4UE-PF |
| | | NPN/PNP | | RP76-L010MD-CY6Q4UE-PF |
| | | NPN , Timing delay | | RP76-L010MN-CY6Q4UE-TP |
| | | PNP , Timing delay | | RP76-L010MP-CY6Q4UE-TP |
| | | NPN/PNP,Timing delay | | RP76-L010MD-CY6Q4UE-TP |
| | | 6" Pigtail | 10-30V DC (Euro Style) | NPN |
| |  | PNP | | RP76-L010MP-CY6P4UE-PF |
| | | NPN/PNP | | RP76-L010MD-CY6P4UE-PF |
| | | NPN , Timing delay | | RP76-L010MN-CY6P4UE-TP |
| | | PNP , Timing delay | | RP76-L010MP-CY6P4UE-TP |
| | | NPN/PNP,Timing delay | | RP76-L010MD-CY6P4UE-TP |
| | | Quick Disconnect swivel 90° | 10-30V DC (Euro Style) | NPN |
| |  | PNP | | RP76-L010MP-CY6Q4UE-PS |
| | | NPN/PNP | | RP76-L010MD-CY6Q4UE-PS |
| | | NPN , Timing delay | | RP76-L010MN-CY6Q4UE-PT |
| | | PNP , Timing delay | | RP76-L010MP-CY6Q4UE-PT |
| | | NPN/PNP,Timing delay | | RP76-L010MD-CY6Q4UE-PT |

Retroreflective Mode with Polarizing Filter

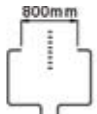






| Sensing Mode | Connection | Supply Voltage | Output Mode | Part Number |
|---|--|--|--|------------------------|
| <p>LED red:660nm</p>  <p>10m</p> <p>Retro-reflective Mode with Polarizing Filter Sensing Distance:10m</p> | Terminal  | 12-240V DC/ 24-240V AC | Relay NO (4-wire) | RP76-L010MR-CY6T4L-PF |
| | | | Relay NO, Timing delay (4-wire) | RP76-L010MR-CY6T4L-TP |
| | | | SPST SCR Solid-state Light-ON (2-wire) | RP76-L010MC-LY6T4L-PF |
| | | | SPST SCR Solid-state Dark-ON (2-wire) | RP76-L010MC-DY6T4L-PF |
| | QuickDisconnect(0°or90°settled)  | 12-240V DC/ 24-240V AC (Micro Style) | Relay NO (4-wire) | RP76-L010MR-CY6Q4LM-PF |
| | | | Relay NO, Timing delay (4-wire) | RP76-L010MR-CY6Q4LM-TP |
| | | | SPST SCR Solid-state Light-ON (2-wire) | RP76-L010MC-LY6Q4LM-PF |
| | | | SPST SCR Solid-state Dark-ON (2-wire) | RP76-L010MC-DY6Q4LM-PF |
| | 6" Pigtail  | 12-240V DC/ 24-240V AC (Micro Style) | Relay NO (4-wire) | RP76-L010MR-CY6P4LM-PF |
| | | | Relay NO, Timing delay (4-wire) | RP76-L010MR-CY6P4LM-TP |
| | | | SPST SCR Solid-state Light-ON (2-wire) | RP76-L010MC-LY6P4LM-PF |
| | | | SPST SCR Solid-state Dark-ON (2-wire) | RP76-L010MC-DY6P4LM-PF |
| | Quick Disconnect swivel 90°  | 12-240V DC/ 24-240V AC (Micro Style) | Relay NO (4-wire) | RP76-L010MR-CY6Q4LM-PS |
| | | | Relay NO, Timing delay (4-wire) | RP76-L010MR-CY6Q4LM-PT |
| | | | SPST SCR Solid-state Light-ON (2-wire) | RP76-L010MC-LY6Q4LM-PS |
| | | | SPST SCR Solid-state Dark-ON (2-wire) | RP76-L010MC-DY6Q4LM-PS |

D: RP76 SENSORS





Glass Fiber Optic Mode

| Sensing Mode | Connection | Supply Voltage | Output Mode | Part Number | |
|---|---|--------------------------------------|-----------------------------|------------------------|----------------------|
|     <p style="writing-mode: vertical-rl; transform: rotate(180deg);">Glass Fiber-optic Sensing Distance</p> | Terminal | 10-30V DC | NPN | RP76-FGFN-CY6T4U | |
| |  | | 10-30V DC | PNP | RP76-FGFP-CY6T4U |
| | | | | NPN/PNP | RP76-FGFD-CY6T4U |
| | | | | NPN , Timing delay | RP76-FGFN-CY6T4U-T |
| | | | | PNP , Timing delay | RP76-FGFP-CY6T4U-T |
| | | | | NPN/PNP, Timing delay | RP76-FGFD-CY6T4U-T |
| | | Quick Disconnect (0° or 90° settled) | | 10-30V DC (Euro Style) | NPN |
| |  | 10-30V DC (Euro Style) | PNP | | RP76-FGFP-CY6Q4UE |
| | | | NPN/PNP | | RP76-FGFD-CY6Q4UE |
| | | | NPN , Timing delay | | RP76-FGFN-CY6Q4UE-T |
| | | | PNP , Timing delay | | RP76-FGFP-CY6Q4UE-T |
| | | | NPN/PNP, Timing delay | | RP76-FGFD-CY6Q4UE-T |
| | | | 6" Pigtail | 10-30V DC (Euro Style) | NPN |
| |  | 10-30V DC (Euro Style) | PNP | | RP76-FGFP-CY6P4UE |
| | | | NPN/PNP | | RP76-FGFD-CY6P4UE |
| | | | NPN , Timing delay | | RP76-FGFN-CY6P4UE-T |
| | | | PNP , Timing delay | | RP76-FGFP-CY6P4UE-T |
| | | | NPN/PNP, Timing delay | | RP76-FGFD-CY6P4UE-T |
| | | | Quick Disconnect swivel 90° | 10-30V DC (Euro Style) | NPN |
| |  | 10-30V DC (Euro Style) | PNP | | RP76-FGFP-CY6Q4UE-S |
| | | | NPN/PNP | | RP76-FGFD-CY6Q4UE-S |
| | | | NPN , Timing delay | | RP76-FGFN-CY6Q4UE-TS |
| | | | PNP , Timing delay | | RP76-FGFP-CY6Q4UE-TS |
| | | | NPN/PNP, Timing delay | | RP76-FGFD-CY6Q4UE-TS |





Glass Fiber Optic Mode

| Sensing Mode | Connection | Supply Voltage | Output Mode | Part Number |
|--|--------------------------------------|---|--|----------------------|
|    Glass Fiber-optic Sensing Distance | Terminal |  12-240V DC/ 24-240V AC | Relay NO (4-wire) | RP76-FGFR-CY6T4L |
| | | | Relay NO, Timing delay (4-wire) | RP76-FGFR-CY6T4L-T |
| | | | SPST SCR Solid-state Light-ON (2-wire) | RP76-FGFC-LY6T4L |
| | | | SPST SCR Solid-state Dark-ON (2-wire) | RP76-FGFC-DY6T4L |
| | Quick Disconnect (0° or 90° settled) |  12-240V DC/ 24-240V AC (Micro Style) | Relay NO (4-wire) | RP76-FGFR-CY6Q4LM |
| | | | Relay NO, Timing delay (4-wire) | RP76-FGFR-CY6Q4LM-T |
| | | | SPST SCR Solid-state Light-ON (2-wire) | RP76-FGFC-LY6Q4LM |
| | | | SPST SCR Solid-state Dark-ON (2-wire) | RP76-FGFC-DY6Q4LM |
| | 6" Pigtail |  12-240V DC/ 24-240V AC (Micro Style) | Relay NO (4-wire) | RP76-FGFR-CY6P4LM |
| | | | Relay NO, Timing delay (4-wire) | RP76-FGFR-CY6P4LM-T |
| | | | SPST SCR Solid-state Light-ON (2-wire) | RP76-FGFC-LY6P4LM |
| | | | SPST SCR Solid-state Dark-ON (2-wire) | RP76-FGFC-DY6P4LM |
| | Quick Disconnect swivel 90° |  12-240V DC/ 24-240V AC (Micro Style) | Relay NO (4-wire) | RP76-FGFR-CY6Q4LM-S |
| | | | Relay NO, Timing delay (4-wire) | RP76-FGFR-CY6Q4LM-TS |
| | | | SPST SCR Solid-state Light-ON (2-wire) | RP76-FGFC-LY6Q4LM-S |
| | | | SPST SCR Solid-state Dark-ON (2-wire) | RP76-FGFC-DY6Q4LM-S |

Thru-beam Mode

| Sensing Mode | Connection | Supply Voltage | Output Mode | Part Number |
|---|---|---------------------------|----------------------|------------------------|
| Infrared:880nm | Terminal  | 10-30V DC | Emitter | RP76-T028MD-EY9T4L |
| | | | NPN | RP76-T028MN-CY9T4U |
| | | | PNP | RP76-T028MP-CY9T4U |
| | | | NPN/PNP | RP76-T028MD-CY9T4U |
| | | | NPN , Timing delay | RP76-T028MN-CY9T4U-T |
| | | | PNP , Timing delay | RP76-T028MP-CY9T4U-T |
| | | | NPN/PNP,Timing delay | RP76-T028MD-CY9T4U-T |
| | QuickDisconnect(0°or90°settled)  | 10-30V DC (Euro Style) | Emitter | RP76-T028MD-EY9Q4LE |
| | | | NPN | RP76-T028MN-CY9Q4UE |
| | | | PNP | RP76-T028MP-CY9Q4UE |
| | | | NPN/PNP | RP76-T028MD-CY9Q4UE |
| | | | NPN , Timing delay | RP76-T028MN-CY9Q4UE-T |
| | | | PNP , Timing delay | RP76-T028MP-CY9Q4UE-T |
| | | | NPN/PNP,Timing delay | RP76-T028MD-CY9Q4UE-T |
| Thru-beam Mode Sensing Distance: 28m | 6" Pigtail  | 10-30V DC (Euro Style) | Emitter | RP76-T028MD-EY9P4LE |
| | | | NPN | RP76-T028MN-CY9P4UE |
| | | | PNP | RP76-T028MP-CY9P4UE |
| | | | NPN/PNP | RP76-T028MD-CY9P4UE |
| | | | NPN , Timing delay | RP76-T028MN-CY9P4UE-T |
| | | | PNP , Timing delay | RP76-T028MP-CY9P4UE-T |
| | | | NPN/PNP,Timing delay | RP76-T028MD-CY9P4UE-T |
| | Quick Disconnect swivel 90°  | 10-30V DC (Euro Style) | Emitter | RP76-T028MD-EY9Q4LE-S |
| | | | NPN | RP76-T028MN-CY9Q4UE-S |
| | | | PNP | RP76-T028MP-CY9Q4UE-S |
| | | | NPN/PNP | RP76-T028MD-CY9Q4UE-S |
| | | | NPN , Timing delay | RP76-T028MN-CY9Q4UE-TS |
| | | | PNP , Timing delay | RP76-T028MP-CY9Q4UE-TS |
| | | | NPN/PNP,Timing delay | RP76-T028MD-CY9Q4UE-TS |

Thru-beam Mode

| Sensing Mode | Connection | Supply Voltage | Output Mode | Part Number |
|---|--|--|--|------------------------|
| Infrared: 880nm | Terminal  | 12-240V DC/ 24-240V AC | Emitter (2-wire) | RP76-T028MA-EY9T4L |
| | | | Relay NO (4-wire) | RP76-T028MR-CY9T4L |
| | | | Relay NO, Timing delay (4-wire) | RP76-T028MR-CY9T4L-T |
| | | | SPST SCR Solid-state Light-ON (2-wire) | RP76-T028MC-LY9T4L |
| | | | SPST SCR Solid-state Dark-ON (2-wire) | RP76-T028MC-DY9T4L |
| | Quick Disconnect (0° or 90° settled)  | 12-240V DC/ 24-240V AC (Micro Style) | Emitter (2-wire) | RP76-T028MA-EY9Q4LM |
| | | | Relay NO (4-wire) | RP76-T028MR-CY9Q4LM |
| | | | Relay NO, Timing delay (4-wire) | RP76-T028MR-CY9Q4LM-T |
| | | | SPST SCR Solid-state Light-ON (2-wire) | RP76-T028MC-LY9Q4LM |
| | | | SPST SCR Solid-state Dark-ON (2-wire) | RP76-T028MC-DY9Q4LM |
| Thru-beam Mode Sensing Distance: 28m | 6" Pigtail  | 12-240V DC/ 24-240V AC (Micro Style) | Emitter (2-wire) | RP76-T028MA-EY9P4LM |
| | | | Relay NO (4-wire) | RP76-T028MR-CY9P4LM |
| | | | Relay NO, Timing delay (4-wire) | RP76-T028MR-CY9P4LM-T |
| | | | SPST SCR Solid-state Light-ON (2-wire) | RP76-T028MC-LY9P4LM |
| | | | SPST SCR Solid-state Dark-ON (2-wire) | RP76-T028MC-DY9P4LM |
| | Quick Disconnect swivel 90°  | 12-240V DC/ 24-240V AC (Micro Style) | Emitter (2-wire) | RP76-T028MA-EY9Q4LM-S |
| | | | Relay NO (4-wire) | RP76-T028MR-CY9Q4LM-S |
| | | | Relay NO, Timing delay (4-wire) | RP76-T028MR-CY9Q4LM-TS |
| | | | SPST SCR Solid-state Light-ON (2-wire) | RP76-T028MC-LY9Q4LM-S |
| | | | SPST SCR Solid-state Dark-ON (2-wire) | RP76-T028MC-DY9Q4LM-S |

D: RP76 SENSORS

Specifications (DC)

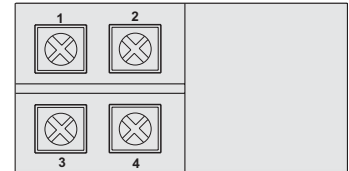
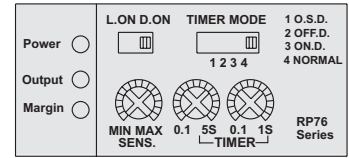
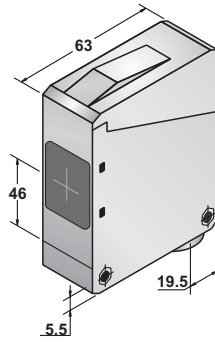
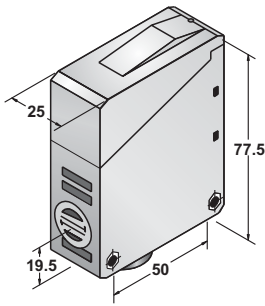
| Item \ Sensing Mode | Opposed | Retrorefletive | Diffuse | Diffuse (background suppression) |
|-------------------------------|--|----------------|---------------|-------------------------------------|
| Sensing Range, Adjustable | See each mode | | | |
| Angle of Divergence | approx. 1.7° | | | |
| Light Spot Size | 300 mm @ 20m | 150 mm @ 5m | 15 mm @ 800mm | 17 mm @ 300mm |
| Light Source | LED infrared | LED Red | LED infrared | |
| Response Time/Frequency | <=1ms/500Hz | | | <=2ms/250Hz |
| Supply Voltage | 10-30V DC (limit values) | | | |
| Current Consumption (no load) | <35 mA | | | |
| Ripple (within Vs tolerance) | <= 5 V peak-to-peak | | | |
| Output Type | PNP, NPN, PNP/NPN | | | |
| Output Voltage High | PNP is Vs-(<=2.5V); NPN is approx. Vs | | | |
| Output Voltage Low | PNP is approx. 0V; NPN is <=1.5V | | | |
| Output Current Max. | 100 mA | | | |
| Operation Mode | Light or dark switching selectable via switch | | | |
| Housing | Glass fiber reinforced plastic | | | |
| Enclosure Rating | IP 66 / NEMA 4 | | | |
| Circuit Protection | Outputs short circuit and over current protected, Vs reverse polarity protected | | | |
| Test Input | —— | | | |
| Alarm Output | —— | | | |
| Time Options | No delay, On delay, Off delay, One-shot (with timer mode only) | | | |
| Time Settings | 0.1 ... 5s Variable (with timer mode only) | | | |
| Ambient Operating Temperature | -25...55°C | | | |
| Storage Temperature | -40...70°C | | | |
| EMC | IEC 60947-5-2, Parts 7.2.6.1.2.3 or RFI>3V/m(in 80-1000MHZ), EFT>1KV, ESD>4KV(contact) | | | |
| Voltage With Stand Ability | IEC 60947-5-2, Part 8.3.3.4 or 500VDC for one min, between all supply terminals connected together and enclosure | | | |
| Insulation Resistance | >20M Ω, with 500V DC megger between all supply terminals connected together and enclosure | | | |
| Vibration Resistance | IEC 60947-5-2, Part 7.4.2 or 10-55HZ, 1.0mm amplitude in x, y and z directions for 30 min | | | |
| Shock Resistance | IEC 60947-5-2, Part 7.4.1 or 30g, 11ms in x, y and z directions for six time each | | | |
| Weight | Approx. 120 g | | | |
| Mounting Bracket | RP76-A1 (see page U-03) | | | |

Specifications (AC/DC)

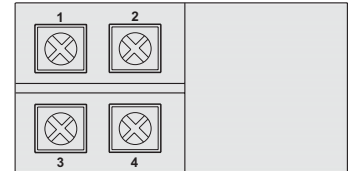
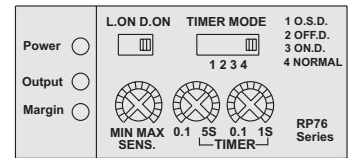
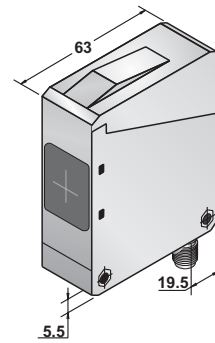
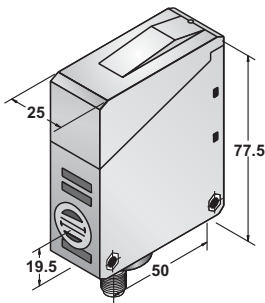
| Item \ Sensing Mode | Opposed | Retroreflective | Diffuse | Diffuse (background suppression) |
|-------------------------------|--|-----------------|---------------|-------------------------------------|
| Sensing Range, Adjustable | See each mode | | | |
| Angle of Divergence | approx.1° | approx.1.7° | approx.1.7° | approx.1.1° |
| Light Spot Size | 350 mm @ 20m | 150 mm @ 5m | 15 mm @ 800mm | 17 mm @ 300mm |
| Light Source | LED infrared | LED Red | LED infrared | |
| Response Time / Frequency | <20 ms /25 Hz | | | |
| Supply Voltage | 12-240V DC / 24-240V AC (10%) | | | |
| Power Consumption | < 2 VA | | | |
| Output Type | Relay NO isolated (provide arc suppression for inductive / capacitive loads), SPST SCR Solid-state relay with either normally closed or normally open contact | | | |
| Switching Voltage Max. | 240 V AC | | | |
| Switching Current Max. | 3 A | | | |
| Current Consumption(No load) | < 30 mA | | | |
| Operation Mode | Relay NO isolated: Light or dark switching selectable via switch SPST SCR Solid-state: Light/Dark operate select switch | | | |
| Housing | Glass fiber reinforced plastic | | | |
| Enclosure Rating | IP 66 / NEMA 4 | | | |
| Circuit Protection | Vs reverse polarity protected | | | |
| Time Options | No delay, On delay, Off delay, One-shot (with timer mode only) | | | |
| Time Settings | Adjustable, 0.1...5 s (with timer mode only) | | | |
| Ambient Operating Temperature | -25...55°C | | | |
| Storage Temperature | -40...70°C | | | |
| EMC | IEC 60947-5-2, Parts 7.2.6.1.2.3 or RFI>3V/m(in 30-1000MHZ), EFT>1KV, ESD>4KV(contact) | | | |
| Voltage Withstand Ability | IEC 60947-5-2, Part 8.3.3.4 or 1500V AC for one min, between all supply terminals connected together and enclosure | | | |
| Insulation Resistance | >20M Ω , with 500V AC megger between all supply terminals connected together and enclosure | | | |
| Vibration Resistance | IEC 60947-5-2, Part 7.4.2 or 10-55HZ, 1.0mm amplitude in x , y and z directions for 30 min | | | |
| Shock Resistance | IEC 60947-5-2, Part 7.4.1 or 30g, 11ms in x , y and z directions for six time each | | | |
| Mounting Bracket | RP76-A1 (see page U-01) | | | |
| Weight | approx. 120 g | | | |
| Pig tail Type | See page Q-01 for cable and connect at pig tail | | | |

Dimensions (Unit: mm)

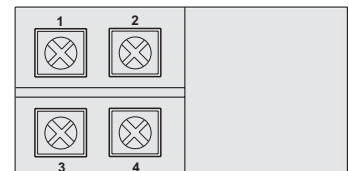
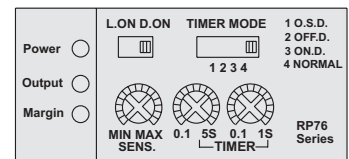
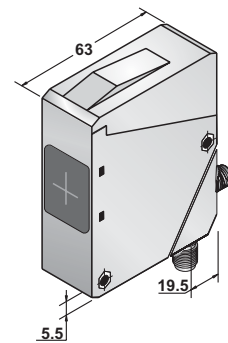
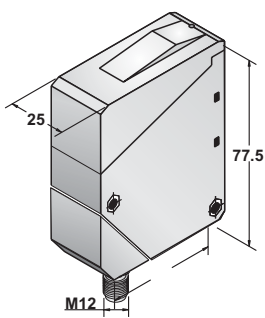
Terminal



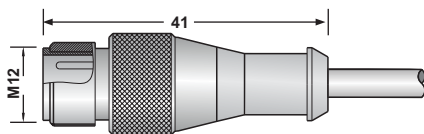
Quick Disconnect



Quick Disconnect Swivel 90°



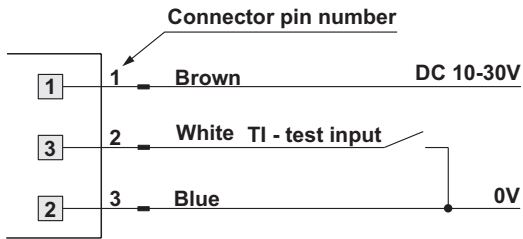
Pigtail*



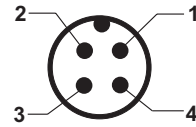
*: Pig tail series please reference page Q-01~Q-02.

Connection Diagrams

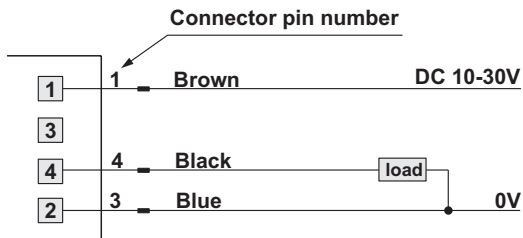
Emitter (DC)



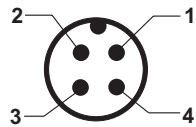
M12 Euro QD



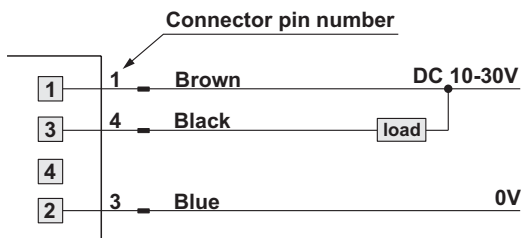
PNP



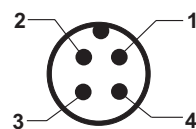
M12 Euro QD



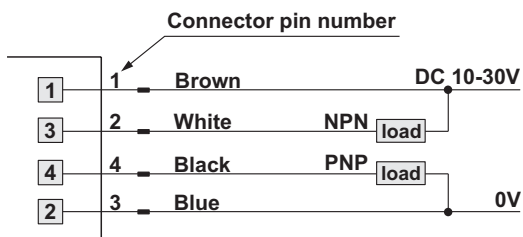
NPN



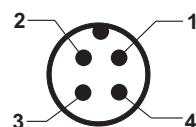
M12 Euro QD



NPN/PNP



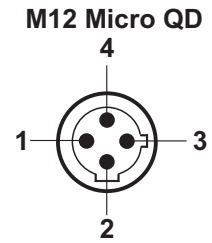
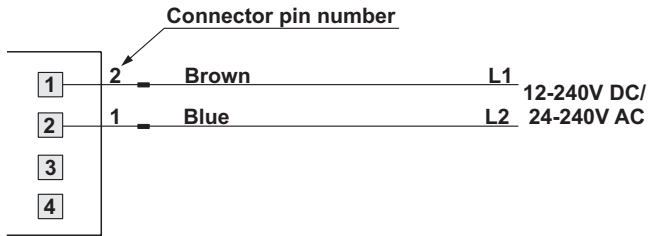
M12 Euro QD



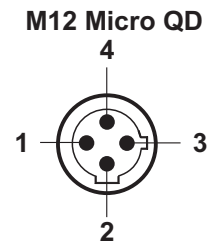
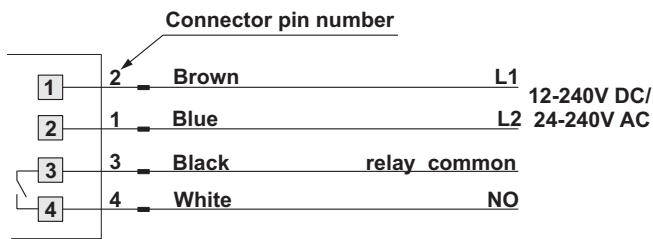
D: RP76 SENSORS

Connection Diagrams

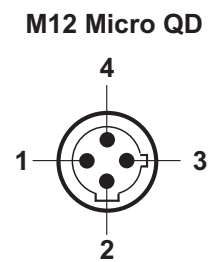
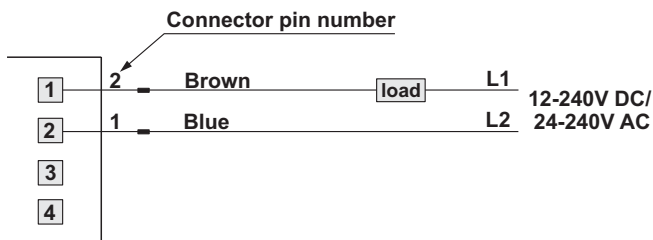
Emitter (AC/DC)



Relay N.O. Version

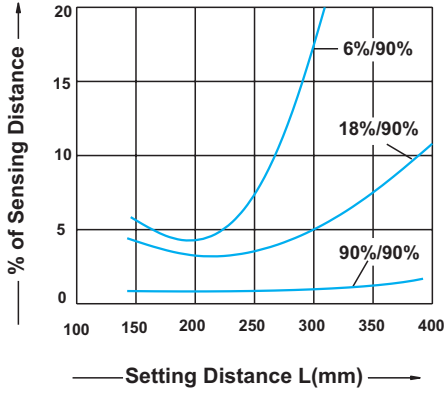


SPST SCR Solid-state Version

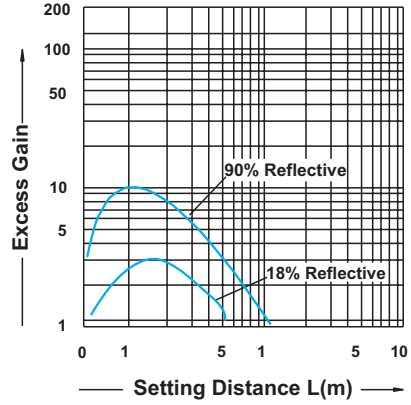


Sensing Characteristics (Typical)

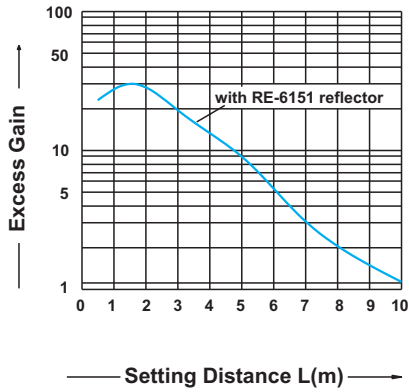
Background Suppression Mode (Diffuse)



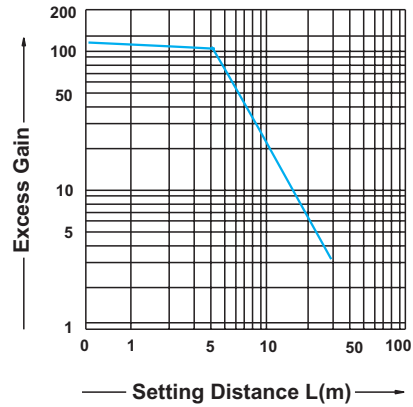
Diffuse Mode



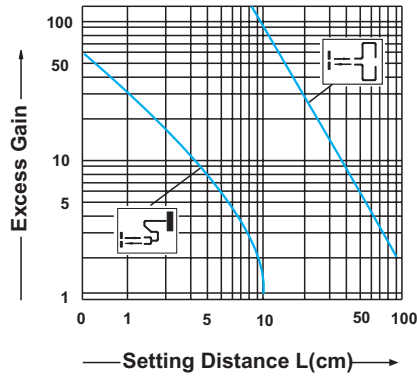
Retro-reflective Mode



Thru-beam Mode



Glass Fiber-Optic Mode



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